The American Statistician

CONTENTS OF VOLUME 55

(Numbers 1–4)

Special Section—Undergraduate Statistics: Looking to the Future ... 1
Statistical Practice ... 19, 89, 175, 263
General Articles ... 35, 102, 194, 299
Editor's Report ... 87
Teacher's Corner ... 140, 228, 326
Statistical Computing and Graphics ... 72, 156, 233, 352
Reviews of Books and Teaching Materials ... 80, 167, 255, 370
Letters to the Editor ... 85,171, 260, 373
Editorial Collaborators ... 377
Index to Volume 55 ... 378

INDEX TO VOLUME 55 (2001)

ARTICLES (BY AUTHOR)

Albert, Jim, and Williamson, Patricia, "Using Model/Data Simulations to Detect Streakiness," 41

Anderson, Genan T. (*see* Hilton, Sterling C.)

Balkin, Sandy D., and Mallows, Colin L., "An Adjusted, Asymmetric Two-Sample *t* Test," 203

Barker, Lawrence, Rolka, Henry, Rolka, Deborah, and Brown, Cedric, "Equivalence Testing for Binomial Random Variables: Which Test to Use?" 279

Bayarri, M. J. (*see* Sellke, Thomas)

Bélisle, Patrick (*see* Hanley, James A.)

Bellhouse, D. R., "The Central Limit Theorem Under Simple Random Sampling," 352

Berger, James O. (*see* Sellke, Thomas)

Boen, James (*see* Wall, Melanie M.)

Bolstad, W. M., Hunt, Lyn A., and McWhirter, Judith L., "Sex, Drugs, and Rock & Roll Survey in a First-Year Service Course in Statistics," 145

Boos, Dennis D. (*see* Wu, Chi-tsung)

Brown, Cedric (*see* Barker, Lawrence)

Browne, Richard H., "Using the Sample Range as a Basis for Calculating Sample Size in Power Calculations," 293

Bryce, G. Rex, Gould, Robert, Notz, William I., and Peck, Roxy L., "Curriculum Guidelines for Bachelor of Science Degrees in Statistical Science," 7

Cabilio, P., and Farrell, P. J., "A Computer-Based Lab Supplement to Courses in Introductory Statistics," 228

Cahya, Suntara (*see* Castillo, Enrique Del)

Casella, George, Lavine, Michael, and Robert, Christian P., "Explaining the Perfect Sampler," 299

Castillo, Enrique Del, and Cahya, Suntara, "A Tool for Computing Confidence Regions on the Stationary Point of a Response Surface," 358

Cesana, B. M., Reina, G., and Marubini, E., "Sample Size for Testing a Proportion in Clinical Trials: A "Two-Step" Procedure Combining Power and Confidence Interval Expected Width," 288

Chance, Beth L., and Rossman, Allan J., "Sequencing Topics in Introductory Statistics: A Debate on What to Teach When," 140

Chen, Zhen, and Kuo, Lynn, "A Note on the Estimation of the Multinomial Logit Model With Random Effects," 89

Chung, Moo K. (*see* Hanley, James A.)

Datta, Somnath (*see* Satten, Glen A.)

Dawson, Don, and Magee, Lonnie, "The National Hockey League Entry Draft, 1969–1996: An Application of a Weighted Pool-Adjacent-Violators Algorithm," 194

Denby, L., Landwehr, J. M., and Mallows, C. L., "An Exercise in the Real World of Design and Analysis," 263

Dodge, Yadolah, and Rousson, Valentin, "On Asymmetric Properties of the Correlation Coefficient in the Regression Setting," 51

Evans, Diane L. (*see* Glen, Maj. Andrew G.)

Farrell, P. J. (*see* Cabilio, P.)

Fisher, N. I., and Switzer, P., "Graphical Assessment of Dependence: Is a Picture Worth a 100 Tests?" 233

Gadbury, Gary L., "Randomization Inference and Bias of Standard Errors," 310

Gentleman, Jane F. (*see* Schenker, Nathaniel)

Glen, Maj. Andrew G., Evans, Diane L., and Leemis, Lawrence M., "APPL: A Probability Programming Language," 156

Gould, Robert (*see* Bryce, G. Rex)

Grimshaw, Scott D. (*see* Hilton, Sterling C.)

Gumpertz, Marcia L. (*see* Wu, Chi-tsung)

Hamada, M., Martz, H. F., Reese, C. S., and Wilson, A. G., "Finding Near-Optimal Bayesian Experimental Designs via Genetic Algorithms," 175

Hanley, James A., Joseph, Lawrence, Platt, Robert, Chung, Moo K., and Bélisle, Patrick, "Visualizing the Median as the Minimum-Deviation Location," 150

Heisey, Dennis M. (*see* Hoenig, John M.)

Henderson, Michael, and Meyer, Mary C., "Exploring the Confidence Interval for a Binomial Parameter in a First Course in Statistical Computing," 337

Hilton, Sterling C., Grimshaw, Scott D., and Anderson, Genan T., "Statistics in Preschool," 332

Hoenig, John M., and Heisey, Dennis M., "The Abuse of Power: The Pervasive Fallacy of Power Calculations for Data Analysis," 19

Hogg, Robert V. (*see* Ritter, Mary Ann)

Horton, Nicholas J., and Lipsitz, Stuart R., "Multiple Imputation in Practice: Comparison of Software Packages for Regression Models With Missing Variables," 244

Hunt, Lyn A. (*see* Bolstad, W. M.)

Irizarry, Rafael A., "Local Regression With Meaningful Parameters," 72

Iversen, Philip, and Marasinghe, Mervyn, "Dynamic Graphical Tools for Teaching Experimental Design and Analysis Concepts," 345

Jeske, Daniel R., and Pham, Hoang, "On the Maximum Likelihood Estimates for the Goel–Okumoto Software Reliability Model," 219

Joseph, Lawrence (*see* Hanley, James A.)

Kagan, Abram, "Another Look at the Cramér–Rao Inequality," 211

Kuo, Lynn (*see* Chen, Zhen)

© 2001 American Statistical Association

The American Statistician

CONTENTS OF VOLUME 55

(Numbers 1–4)

Special Section—Undergraduate Statistics: Looking to the Future ... 1
Statistical Practice ... 19, 89, 175, 263
General Articles ... 35, 102, 194, 299
Editor's Report ... 87
Teacher's Corner ... 140, 228, 326
Statistical Computing and Graphics ... 72, 156, 233, 352
Reviews of Books and Teaching Materials ... 80, 167, 255, 370
Letters to the Editor ... 85,171, 260, 373
Editorial Collaborators ... 377
Index to Volume 55 ... 378

INDEX TO VOLUME 55 (2001)

ARTICLES (BY AUTHOR)

Albert, Jim, and Williamson, Patricia, "Using Model/Data Simulations to Detect Streakiness," 41

Anderson, Genan T. (*see* Hilton, Sterling C.)

Balkin, Sandy D., and Mallows, Colin L., "An Adjusted, Asymmetric Two-Sample *t* Test," 203

Barker, Lawrence, Rolka, Henry, Rolka, Deborah, and Brown, Cedric, "Equivalence Testing for Binomial Random Variables: Which Test to Use?" 279

Bayarri, M. J. (*see* Sellke, Thomas)

Bélisle, Patrick (*see* Hanley, James A.)

Bellhouse, D. R., "The Central Limit Theorem Under Simple Random Sampling," 352

Berger, James O. (*see* Sellke, Thomas)

Boen, James (*see* Wall, Melanie M.)

Bolstad, W. M., Hunt, Lyn A., and McWhirter, Judith L., "Sex, Drugs, and Rock & Roll Survey in a First-Year Service Course in Statistics," 145

Boos, Dennis D. (*see* Wu, Chi-tsung)

Brown, Cedric (*see* Barker, Lawrence)

Browne, Richard H., "Using the Sample Range as a Basis for Calculating Sample Size in Power Calculations," 293

Bryce, G. Rex, Gould, Robert, Notz, William I., and Peck, Roxy L., "Curriculum Guidelines for Bachelor of Science Degrees in Statistical Science," 7

Cabilio, P., and Farrell, P. J., "A Computer-Based Lab Supplement to Courses in Introductory Statistics," 228

Cahya, Suntara (*see* Castillo, Enrique Del)

Casella, George, Lavine, Michael, and Robert, Christian P., "Explaining the Perfect Sampler," 299

Castillo, Enrique Del, and Cahya, Suntara, "A Tool for Computing Confidence Regions on the Stationary Point of a Response Surface," 358

Cesana, B. M., Reina, G., and Marubini, E., "Sample Size for Testing a Proportion in Clinical Trials: A "Two-Step" Procedure Combining Power and Confidence Interval Expected Width," 288

Chance, Beth L., and Rossman, Allan J., "Sequencing Topics in Introductory Statistics: A Debate on What to Teach When," 140

Chen, Zhen, and Kuo, Lynn, "A Note on the Estimation of the Multinomial Logit Model With Random Effects," 89

Chung, Moo K. (*see* Hanley, James A.)

Datta, Somnath (*see* Satten, Glen A.)

Dawson, Don, and Magee, Lonnie, "The National Hockey League Entry Draft, 1969–1996: An Application of a Weighted Pool-Adjacent-Violators Algorithm," 194

Denby, L., Landwehr, J. M., and Mallows, C. L., "An Exercise in the Real World of Design and Analysis," 263

Dodge, Yadolah, and Rousson, Valentin, "On Asymmetric Properties of the Correlation Coefficient in the Regression Setting," 51

Evans, Diane L. (*see* Glen, Maj. Andrew G.)

Farrell, P. J. (*see* Cabilio, P.)

Fisher, N. I., and Switzer, P., "Graphical Assessment of Dependence: Is a Picture Worth a 100 Tests?" 233

Gadbury, Gary L., "Randomization Inference and Bias of Standard Errors," 310

Gentleman, Jane F. (*see* Schenker, Nathaniel)

Glen, Maj. Andrew G., Evans, Diane L., and Leemis, Lawrence M., "APPL: A Probability Programming Language," 156

Gould, Robert (*see* Bryce, G. Rex)

Grimshaw, Scott D. (*see* Hilton, Sterling C.)

Gumpertz, Marcia L. (*see* Wu, Chi-tsung)

Hamada, M., Martz, H. F., Reese, C. S., and Wilson, A. G., "Finding Near-Optimal Bayesian Experimental Designs via Genetic Algorithms," 175

Hanley, James A., Joseph, Lawrence, Platt, Robert, Chung, Moo K., and Bélisle, Patrick, "Visualizing the Median as the Minimum-Deviation Location," 150

Heisey, Dennis M. (*see* Hoenig, John M.)

Henderson, Michael, and Meyer, Mary C., "Exploring the Confidence Interval for a Binomial Parameter in a First Course in Statistical Computing," 337

Hilton, Sterling C., Grimshaw, Scott D., and Anderson, Genan T., "Statistics in Preschool," 332

Hoenig, John M., and Heisey, Dennis M., "The Abuse of Power: The Pervasive Fallacy of Power Calculations for Data Analysis," 19

Hogg, Robert V. (*see* Ritter, Mary Ann)

Horton, Nicholas J., and Lipsitz, Stuart R., "Multiple Imputation in Practice: Comparison of Software Packages for Regression Models With Missing Variables," 244

Hunt, Lyn A. (*see* Bolstad, W. M.)

Irizarry, Rafael A., "Local Regression With Meaningful Parameters," 72

Iversen, Philip, and Marasinghe, Mervyn, "Dynamic Graphical Tools for Teaching Experimental Design and Analysis Concepts," 345

Jeske, Daniel R., and Pham, Hoang, "On the Maximum Likelihood Estimates for the Goel–Okumoto Software Reliability Model," 219

Joseph, Lawrence (*see* Hanley, James A.)

Kagan, Abram, "Another Look at the Cramér–Rao Inequality," 211

Kuo, Lynn (*see* Chen, Zhen)

© 2001 American Statistical Association

Lad, Frank, and Scozzafava, Romano, "Distributions Agreeing With Exchangeable Sequential Forecasting," 131
Landwehr, J. M. (*see* Denby, L.)
Langford, Eric, Schwertman, Neil, and Owens, Margaret, "Is the Property of Being Positively Correlated Transitive?" 322
Lavine, Michael (*see* Casella, George)
Leemis, Lawrence L. (*see* Glen, Maj. Andrew G.)
Lenth, Russell V., "Some Practical Guidelines for Effective Sample Size Determination," 187
Lesaffre, Emmanuel (*see* Verbeke, Geert)
Liao, J. G., and Rosen, Ori, "Fast and Stable Algorithms for Computing and Sampling From the Noncentral Hypergeometric Distribution," 366
Lipsitz, Stuart R. (*see* Horton, Nicholas J.)
Magee, Lonnie (*see* Dawson, Don)
Mallows, C. L. (*see* Balkin, Sandy D.; *see also* Denby, L.)
Marasinghe, Mervyn (*see* Iversen, Philip)
Martz, H. F. (*see* Hamada, M.)
Marubini, E. (*see* Cesana, B. M.)
McCready, Thomas A., and Schwertman, Neil C., "The Statistical Paleontology of Charles Lyell and the Coupon Problem," 272
McCue, Kenneth F., "The Statistical Foundations of the EI Method," 106
McWhirter, Judith L. (*see* Bolstad, W. M.)
Meyer, Mary C. (*see* Henderson, Michael)
Mirkin, Boris, "Eleven Ways to Look at the Chi-Squared Coefficient for Contingency Tables," 111
Moore, David S., "Undergraduate Programs and the Future of Academic Statistics," 1
Newcombe, Robert G., "Logit Confidence Intervals and the Inverse Sinh Transformation," 200
Notz, William I. (*see* Bryce, G. Rex)
Owens, Margaret (*see* Langford, Eric)
Peck, Roxy L. (*see* Bryce, G. Rex)
Pham, Hoang (*see* Jeske, Daniel R.)
Platt, Robert (*see* Hanley, James A.)
Randles, Ronald H., "On Neutral Responses (Zeros) in the Sign Test and Ties in the Wilcoxon–Mann–Whitney Test," 96
Reese, C. S. (*see* Hamada, M.)
Reina, G. (*see* Cesana, B. M.)
Ritter, Mary Ann, Starbuck, Robert R., and Hogg, Robert V., "Advice From Prospective Employers on Training BS Statisticians," 14
Robert, Christian P. (*see* Casella, George)
Rolka, Deborah (*see* Barker, Lawrence)
Rolka, Henry (*see* Barker, Lawrence)
Root, Rob, and Thorme, Trisha, "Community-Based Projects in Applied Statistics: Using Service-Learning to Enhance Student Understanding," 326
Rosen, Ori (*see* Liao, J. G.)
Rosenbaum, Paul R., "Replicating Effects and Biases," 223
Rossman, Allan J. (*see* Chance, Beth L.)
Rousson, Valentin (*see* Dodge, Yadolah)
Satten, Glen A., and Datta, Somnath, "The Kaplan–Meier Estimator as an Inverse-Probability-of-Censoring Weighted Average," 207
Schenker, Nathaniel, and Gentleman, Jane F., "On Judging the Significance of Differences by Examining the Overlap Between Confidence Intervals," 182
Schmee, Josef (*see* Wendell, John P.)
Schwertman, Neil (*see* Langford, Eric; *see also* McCready, Thomas A.)
Scozzafava, Romano (*see* Lad, Frank)
Sellke, Thomas, Bayarri, M. J., and Berger, James O., "Calibration of p Values for Testing Precise Null Hypotheses," 62
Shieh, Gwowen, "The Inequality Between the Coefficient of Determination and the Sum of Squared Simple Correlation Coefficients," 121
Shuster, Jonathan, "Dependence in Simulation: A Case Study From the Game of Contract Bridge," 306
Singpurwalla, Nozer D., and Swift, Andrew, "Network Reliability and Borel's Paradox," 213
Spiessens, Bart (*see* Verbeke, Geert)
Starbuck, Robert R. (*see* Ritter, Mary Ann)
Stasny, Elizabeth A., "How to Get a Job in Statistics," 35
Stokes, Lynne, "Editor's Report," 87
Swift, Andrew (*see* Singpurwalla, Nozer D.)
Switzer, P. (*see* Fisher, N. I.)
Thorme, Trisha (*see* Root, Rob)
Tsiatis, Anastasios A. (*see* Yang, Li)
Tweedie, Richard (*see* Wall, Melanie M.)
Upton, Graham J. G., "A Toroidal Scatter Diagram for Ternary Variables," 240
Verbeke, Geert, Spiessens, Bart, and Lesaffre, Emmanuel, "Conditional Linear Mixed Models," 25
Wall, Melanie M., Boen, James, and Tweedie, Richard, "An Effective Confidence Interval for the Mean With Samples of Size One and Two," 102
Wendell, John P., and Schmee, Josef, "Likelihood Confidence Intervals for Proportions in Finite Populations," 55
Williamson, Patricia (*see* Albert, Jim)
Wilson, A. G. (*see* Hamada, M.)
Wu, Chi-tsung, Gumpertz, Marcia L., and Boos, Dennis D., "Comparison of GEE, MINQUE, ML, and REML Estimating Equations for Normally Distributed Data," 125
Yang, Li, and Tsiatis, Anastasios A., "Efficiency Study of Estimators for a Treatment Effect in a Pretest–Posttest Trial," 314
Zhou, Mai, "Understanding the Cox Regression Models With Time-Change Covariates," 153

SOFTWARE REVIEWED (BY PRODUCT NAME)

MICE, Horton, Nicholas J., and Lipsitz, Stuart R., 244
Missing Data Library for S-Plus, Horton, Nicholas J., and Lipsitz, Stuart R., 244
SAS 8.2, Horton, Nicholas J., and Lipsitz, Stuart R., 244
SOLAS 3.0, Horton, Nicholas J., and Lipsitz, Stuart R., 244

BOOKS REVIEWED (BY AUTHOR OR EDITOR)

Andel, Jiri, *Mathematics of Chance*, 372

Cobb, G. W., Witmer, J. A., and Cryer, J. D., *An Electronic Companion to Statistics*, 168

Cobb, G. W., Witmer, J. A., and Cryer, J. D., *An Electronic Companion to Biostatistics*, 168

Cobb, G. W., Witmer, J. A., and Cryer, J. D., *An Electronic Companion to Business Statistics*, 168

Cobb, George W., *Introduction to Design and Analysis of Experiments*, 80

Cowles, Michael, *Statistics in Psychology: An Historical Perspective* (2nd ed.), 372

Diebold, Francis X., *Elements of Forecasting* (2nd ed.), 371

Eddison, John, *Quantitative Investigations in the Biosciences using MINITAB*, 167

Finzer, William, Erickson, Tim, and Bunker, Jill, *Fathom: Dynamic Systems Software*, 258

Gad, Shayne C., *Statistics and Experimental Design for Toxicologists* (3rd ed.), 81

Haerdle, W., Klinge, S., and Muller, M., *XploRe: Learning Guide*, 169

Hossack, J. B., Pollard, J. H., and Zehnwirth, B., *Introduction Statistics With Applications in General Insurance*, 84

Kaplan, Robert, *The Nothing That Is: A Natural History Zero*, 372

Keller, Gerald, and Warrack, Brian, *Statistics for Management and Economics* (5th ed.), 370

Kvanli, Alan H., Pavur, Robert J., and Guynes, Stephen C., *Introduction to Business Statistics: A Computer Integrated, Data Analysis Approach*, 83

Lomax, Richard G., *Statistical Concepts: Education and Behavioral Sciences* (2nd ed.), 259

May, William D., *So Much Data So Little Math: How to Predict Data Trends, 5 Easy Profitable Methods*, 256

Nolan, Deborah, and Speed, Terry, *Stat Labs: Mathematical Statistics Through Applications*, 257

Rees, D. G., *Essential Statistics* (3rd ed.), 83

Ross, Sheldon M., *Introduction to Probability for Engineers and Scientists* (2nd ed.), 81

Stirzaker, David, *Probability and Random Variables: A Beginner's Guide*, 82

Tamhane, Ajit C., and Dunlop, Dorothy D., *Statistics and Data Analysis: From Elementary to Intermediate*, 255

Vardeman, Stephen B., and Jobe, J. Marcus, *Statistical Quality Assurance Methods for Engineers*, 167

Weber, Donald C., and Skillings, John H., *A First Course in the Design of Experiments: A Linear Models Approach*, 370

Wild, Christopher J., and Seber, George A., *Chance Encounters: A First Course in Data Analysis and Inference*, 255

© *2001 American Statistical Association*